

Title (en)  
CONTROLLED VOLUME INJECTION/ASPIRATION DEVICE

Title (de)  
INJEKTIONS-/ASPIRATIONSVORRICHTUNG MIT KONTROLLIERTEM VOLUMEN

Title (fr)  
DISPOSITIF D'INJECTION ASPIRATION A VOLUME CONTROLE

Publication  
**EP 1613377 A1 20060111 (EN)**

Application  
**EP 04759915 A 20040415**

Priority  
• US 2004011777 W 20040415  
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Abstract (en)  
[origin: US2004210200A1] A controlled volume injection/aspiration device includes a syringe having a body for containing a medicament, a needle and a piston slidably disposed within the body. A shell is provided for receiving the syringe body and a plunger rack is disposed within the shell. A manually operated control is disposed in an operative relationship with the plunger rack for moving the plunger rack in a stepwise forward direction causing the piston to eject discrete doses of medication from the syringe body through the needle. The manual operated control is also operative for moving the piston in a stepwise reverse direction causing the piston to aspirate fluid into the syringe body through the needle.

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**A61M 5/315**

IPC 8 full level  
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**US 2004210200 A1 20041021; US 7364570 B2 20080429**; AU 2004231966 A1 20041104; BR PI0409478 A 20060502;  
CA 2522528 A1 20041104; CN 1774275 A 20060517; EP 1613377 A1 20060111; JP 2006523518 A 20061019; KR 20050122256 A 20051228;  
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